



# Samsung NP R580 JBB2 Cooling Fan Replacement

This guide will show you how to disassemble your laptop and replace the cooling fan.

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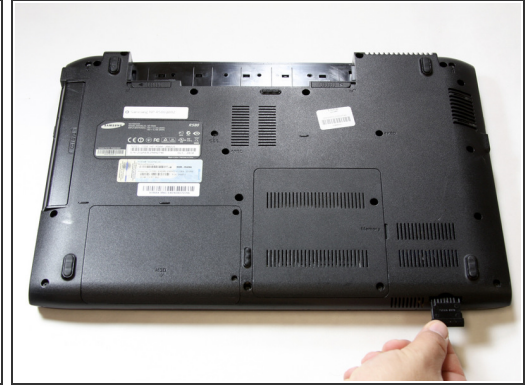
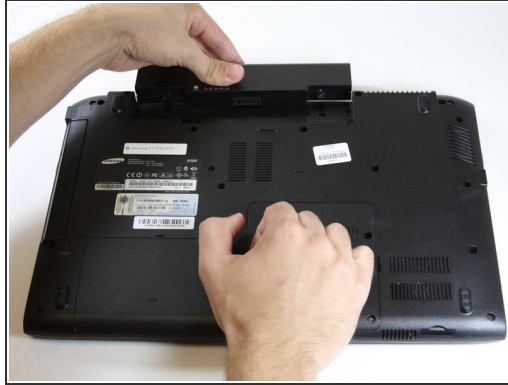
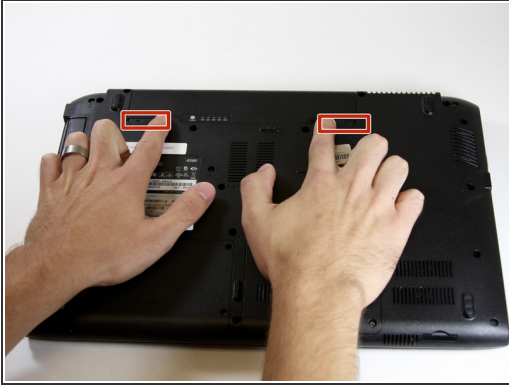




## TOOLS:

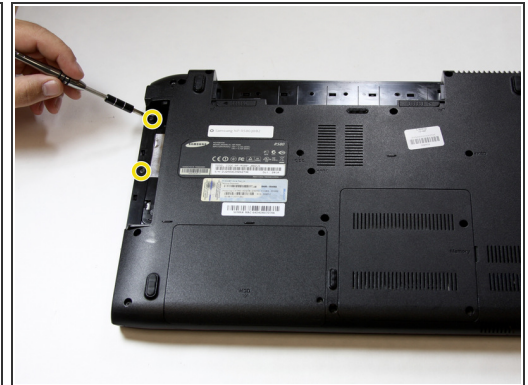
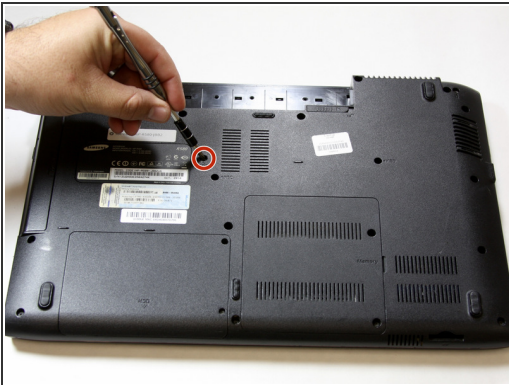
- [Phillips #0 Screwdriver](#) (1)
  - [Metal Spudger](#) (1)
  - [Spudger](#) (1)
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## Step 1 — Cooling Fan



- Remove the battery by sliding the battery release latches laterally outward into the unlatched position.
- Slide the battery upwards out of the battery housing.
- Remove the SD card placeholder.

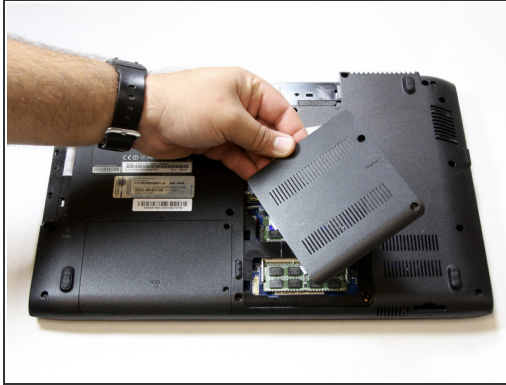
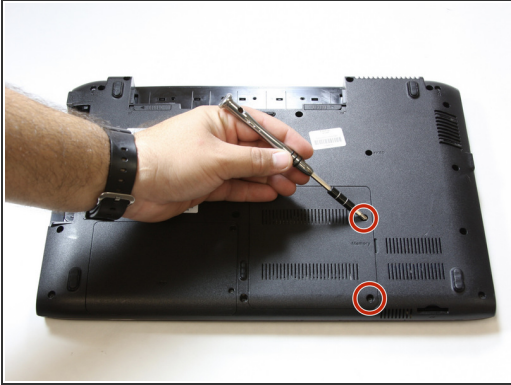
## Step 2



- Remove the 9mm phillip's head screw labeled ODD.
- Slide the DVD drive out of the body.
- Remove two 3 mm phillip's head housing screws.

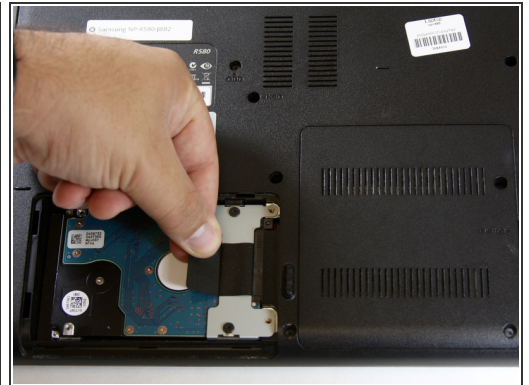
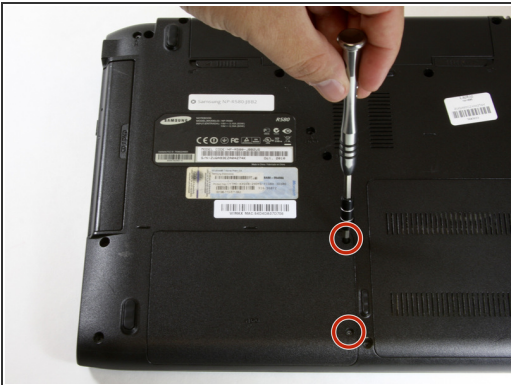


## Step 3



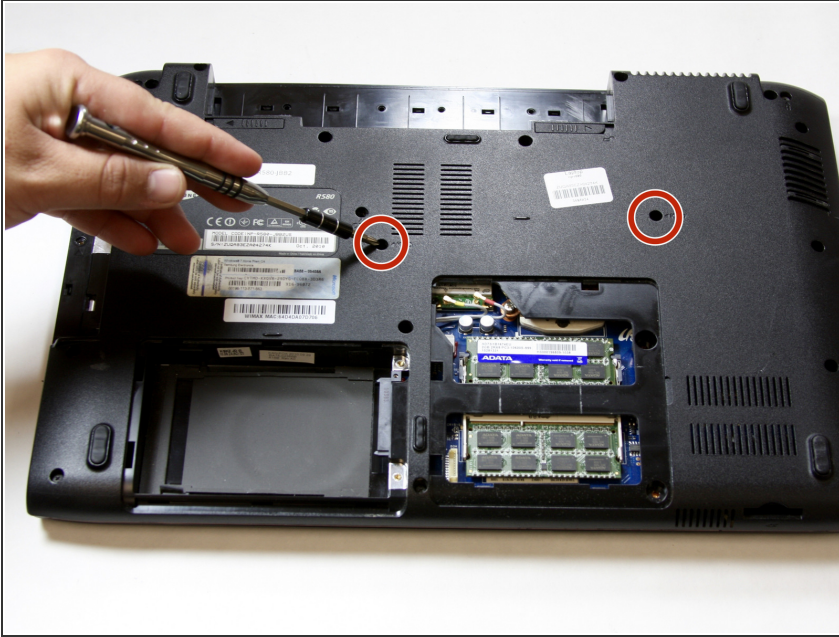
- Remove the two 9mm phillip's head screws on the back plate labeled memory.
- Remove the back plate labeled "memory."
- Disconnect the two gray connectors.

## Step 4



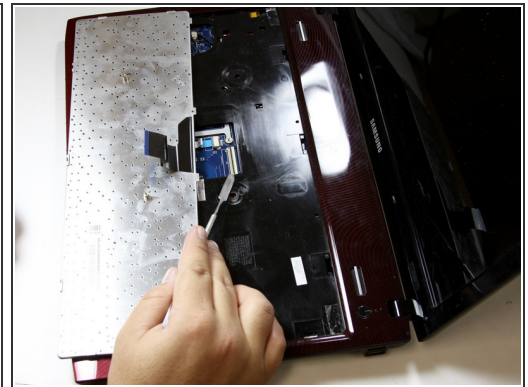
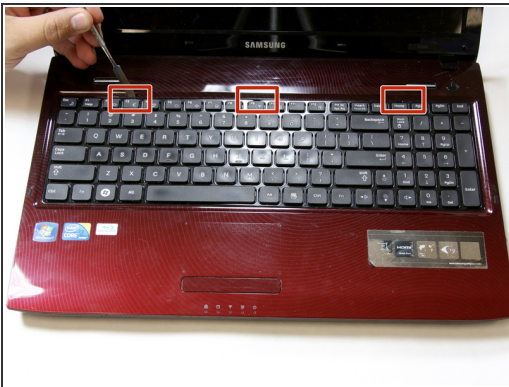
- Remove the two 5mm phillip's head screws on the back plate labeled HDD.
- Remove the back plate to the hard drive by pulling downward and lifting away.
- Pull laterally to the left on the black tab until it releases its connection and is able to be lifted free.

## Step 5



- Remove the two 7mm phillip's head keyboard screws on the back plate labeled KBD.

## Step 6



- Open the computer and locate the three keyboard release tabs. Once located, use a flat metal device to pry the tabs open.
- Lift the keyboard away to discover its ribbon connector beneath.
- Lift the black portion of the connector to release the ribbon and set the keyboard aside.

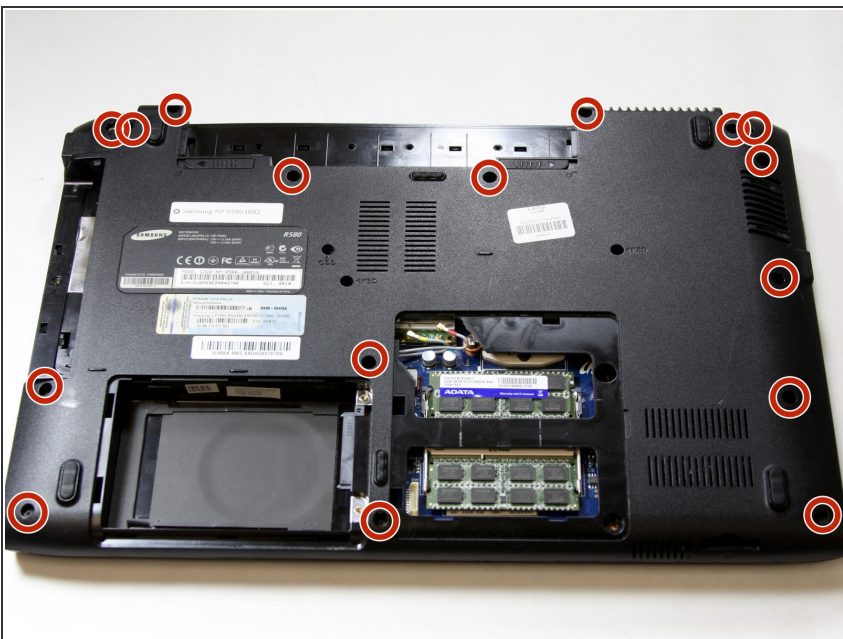


## Step 7



- Disconnect the mouse pad ribbon connector by pulling the grey connector downwards toward the mouse-pad, freeing the ribbon.
- Disconnect speaker wires by pulling it upwards toward the laptop screen.

## Step 8



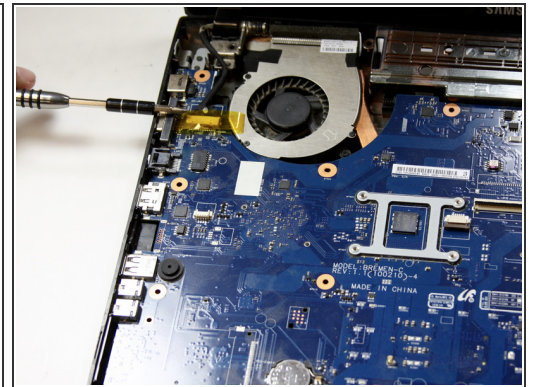
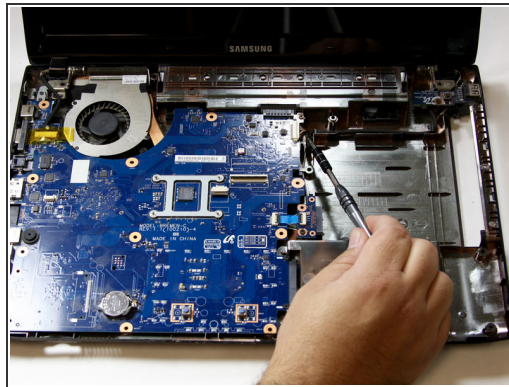
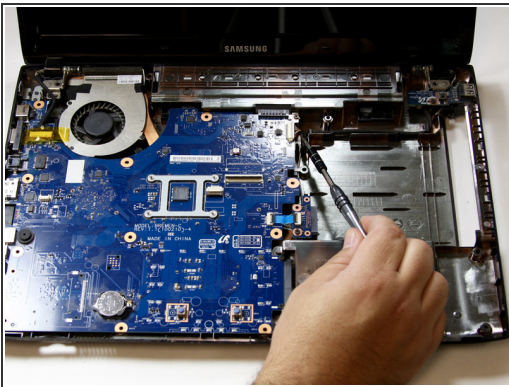
- Remove the sixteen 9 mm phillip's head housing screws on the back plate

## Step 9



- Pry off the keyboard housing plate with the metal spatula and set aside.

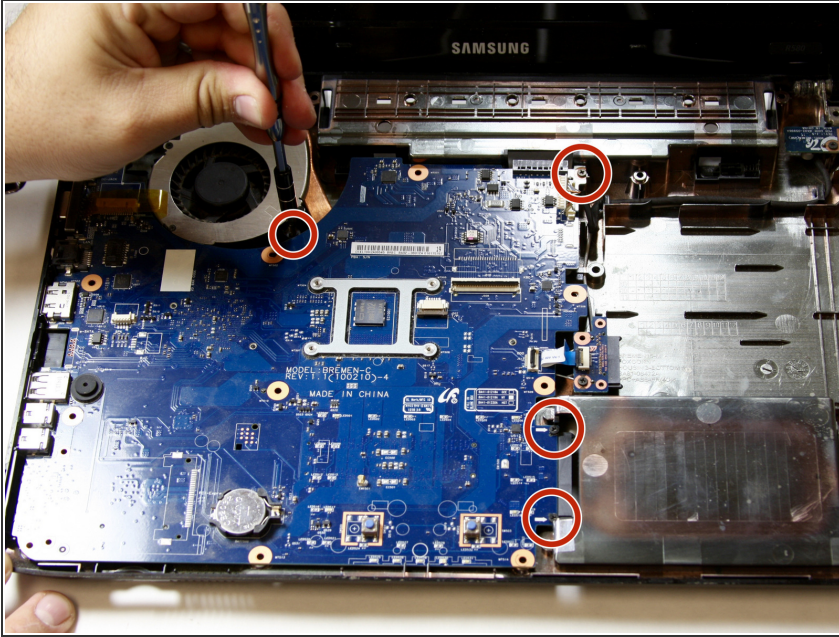
## Step 10



- Disconnect white USB drive plug by pulling outwards using a nylon spudger.
- Disconnect blue DVD player ribbon tab by pulling the blue tab outwards laterally away from the mother board using a nylon spudger.
- Disconnect screen connection wire by pulling it towards the screen using a nylon spudger.

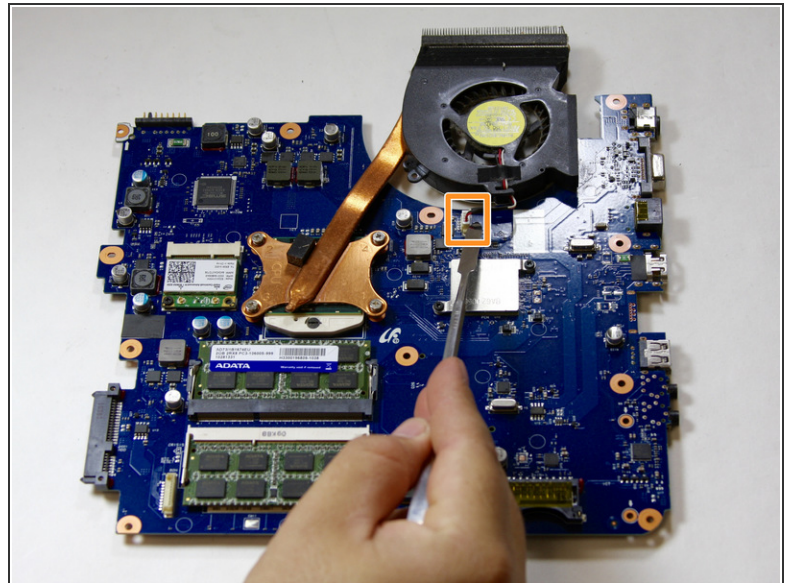
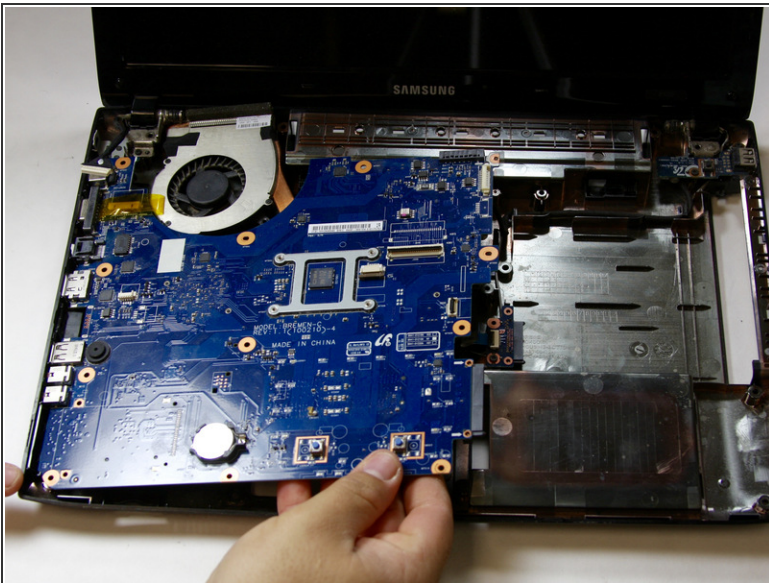


## Step 11



- Remove the three 5mm phillip's head screws on the motherboard and the one 5 mm phillip's head screw on the fan. All screws have white arrows pointing towards them.

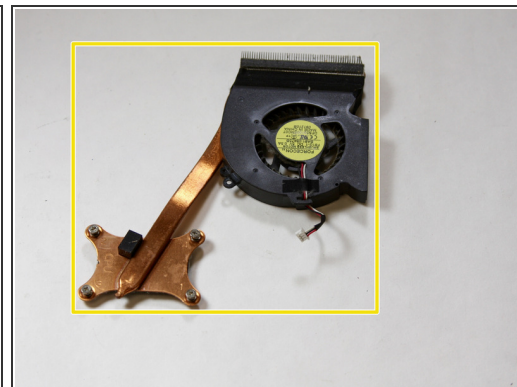
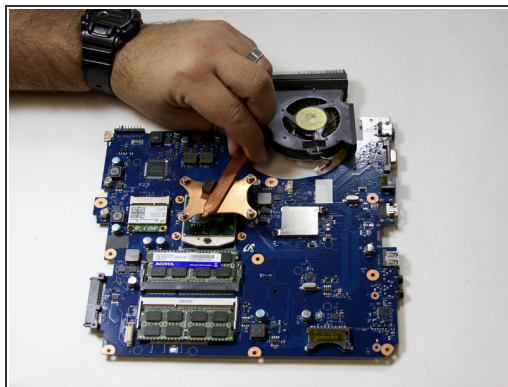
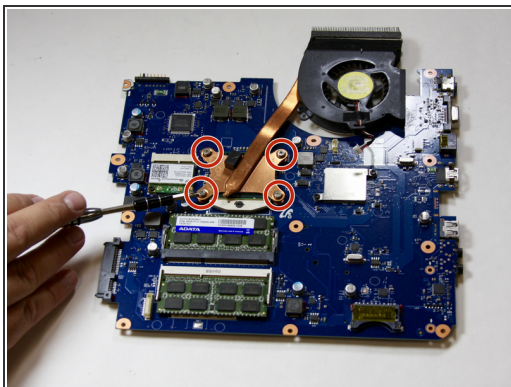
## Step 12



- Work the motherboard out of the housing by lifting upwards.
- Disconnect the fan's cord from the motherboard by pulling upwards on it.

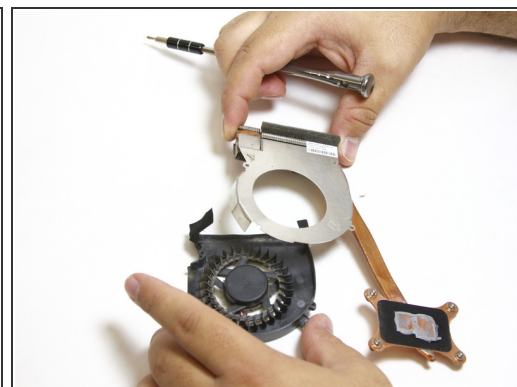
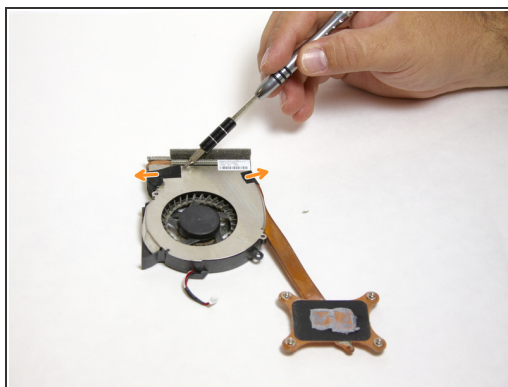
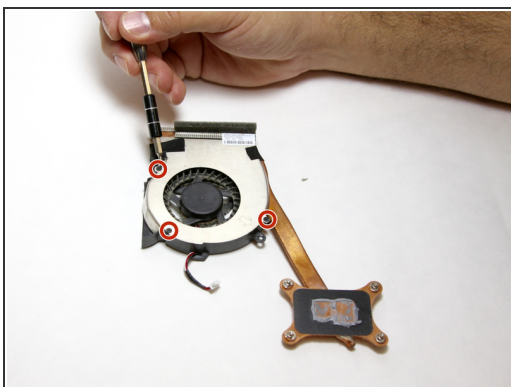


## Step 13



- Loosen the (4) self retaining screws located on the copper cooling bar.
- Lift and remove fan

## Step 14



- Remove the "three" 3 mm screws on the fan housing.
- Peel the tape off of the fan housing
- Remove the fan from the cooling hardware

To reassemble your device, follow these instructions in reverse order.

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